

REMARKS/ARGUMENTS

Claim Amendments

The Applicant has amended claims 1, 22, and 36. Applicant respectfully submits no new matter has been added. Accordingly, claims 1-31 and 33-46 are pending in the application. Favorable reconsideration of the application is respectfully requested in view of the foregoing amendments and the following remarks.

Claim Rejections – 35 U.S.C. § 112

Claims 1, 22 and 36 stand rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter as the invention. The Examiner stated that the specification does not support the limitation of “simultaneously issuing two registration reply messages...from the base node.” In response, the Applicant respectfully disagrees. Support for sending two registration reply messages at the same time is found in the specification on page 29, lines 3-14; page 35, line 14-page 36, line 4; and page 39, lines 19-27. The specification states that in response to the need for a new binding that two registration reply messages are sent to the mobile node. Therefore, the allowance of claims 1, 22, and 36 is respectfully requested.

Claim Rejections – 35 U.S.C. § 103 (a)

Claims 1-31 and 33-46 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Lee (US 6,539,225 B1) in view of Tiedemann Jr. et al. (US 5,870,427 A) and C. E. Perkins et al. “Route Optimization in Mobile IP”, draft-ietf-mobileip-optim-08.txt (Feb. 25, 1999). The Applicant has amended claims 1, 22, and 36 to better define the intended scope of the claimed invention. The Examiner’s consideration of the amended claims is respectfully requested.

In regards to claim 1, the Applicant has amended claim 1 which now recites that the two registration reply messages are issued without duplicate data being sent to both the old sub-network router and the new sub-network router. Although Lee discloses a

seamless handoff, Lee accomplishes this handoff in distinctly different way than the Applicant's claimed invention. Lee utilizes simultaneous bindings (i.e., copies of the same packet are sent to two receiving access routers) to insure that data is not lost during the transition from one sub-network router to another sub-network router (see column 5, lines 43-47). The Applicant's claimed invention, on the other hand discloses sending simultaneous reply messages without sending duplicate data to the old and new sub-network routers.

Lee discloses sending a registration reply message. However, Lee utilizes multi-route (i.e., bi-casting) tunneling during the handoff procedure for as long as necessary to ensure that the handoff procedure is complete. Specifically, Lee discloses bi-casting data by sending the data to the old sub-network router and sending duplicate data to the new sub-network router. Thus, Lee requires a duplication (i.e., bi-casting) of content to complete the seamless transfer.

In the Applicant's claimed invention, the seamless handoff is proved by sending one data set carried by old care-of address data packets and by synchronizing the nodes by the deregistration reply message. Thus, the data is not duplicated, but is first sent to the old care-of address. If the mobile node does not receive the deregistration reply message before the wireless connectivity with the old sub-network router deteriorates badly, the mobile node instructs the old sub-network router to send all its stored data packets to the new sub-network routed. By not requiring the duplication of data during the handoff, valuable network bandwidth is conserved. Lee requires duplication of the data. In addition, neither Tiedemann nor Perkins makes up this missing element of sending data without duplicating the data for transmission to two locations.

Claims 2-21 depend from amended claim 1 and recite further limitations in combination with the novel elements of claim 1. Therefore, the allowance of claims 1-21 is respectfully requested.

In regards to claim 22, the Applicant has amended claim 22 which now recites that the two registration reply messages are issued without duplicate data being sent to both the old sub-network router and the new sub-network router within the network. As

discussed above. Lee discloses a seamless handoff, by utilizing simultaneous bindings (i.e., copies of the same packet are sent to two receiving access routers) to insure that data is not lost during the transition from one sub-network router to another sub-network router (see column 5, lines 43-47). The Applicant's claimed invention, on the other hand discloses sending simultaneous reply messages without sending duplicate data to the old and new sub-network routers. In addition, neither Tiedemann nor Perkins makes up this missing element.

Claims 23-31 and 33-35 depend from amended claim 22 and recite further limitations in combination with the novel elements of claim 22. Therefore, the allowance of claims 22-31 and 33-35 is respectfully requested.

In regards to claim 36, the Applicant has amended claim 36 which now recites that the two registration reply messages are issued without duplicate data being sent to both the old sub-network router and the new sub-network router within the network. Lee discloses utilizing simultaneous bindings (i.e., copies of the same packet are sent to two receiving access routers) to insure that data is not lost during the transition from one sub-network router to another sub-network router (see column 5, lines 43-47). Thus the transmission of duplicate data is necessary to ensure the handoff. The Applicant's claimed invention discloses sending simultaneous reply messages without sending duplicate data to the old and new sub-network routers. In addition, neither Tiedemann nor Perkins makes up this missing element.

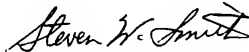
Claims 37-46 depend from amended claim 36 and recite further limitations in combination with the novel elements of claim 36. Therefore, the allowance of claims 36-46 is respectfully requested.

CONCLUSION

In view of the foregoing remarks, the Applicant believes all of the claims currently pending in the Application to be in a condition for allowance. The Applicant, therefore, respectfully requests that the Examiner withdraw all rejections and issue a Notice of Allowance for all pending claims.

The Applicant requests a telephonic interview if the Examiner has any questions or requires any additional information that would further or expedite the prosecution of the Application.

Respectfully submitted,



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Date: December 18, 2006

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